Canon

*L-IE-5173 *

Retinal imaging control software NM (CR-1 Mark II) Version 3.1 New Features Guide

Introduction

Before using this software, read the Operation Manual for Retinal imaging control software NM (CR-1 Mark II) version 2.0 (hereinafter “Operation Manual”). Operating precautions are also included in the Operation Manual.
This guide explains additional features that are not included in the Operation Manual. Please read this guide along with the Operation Manual. Keep these documents so that you can use them in the future.

New Features

New features in version 3.1 are listed below.

- Deleting rows from the Patient History list (See page 2)
- Displaying the memory space required and available when saving the study log data (See page 2)
- Displaying the image in full-screen (See page 3)
- Changing the capture settings on the Study screen (See page 3)
- Pairing images for the stereo images (See page 4)
- Saving the displayed image in TIFF format (See page 6)
- Setting the person name separator conversion rules for DICOM (See page 7)
- Anonymizing patient information for transfer (See page 7)
- Setting the transfer syntax for DICOM (See page 8)
- Entering login user name in five name elements (See page 8)

Software Requirements

Version 3.1 runs in the following environment.

The updated specifications are shown in bold.

Hardware or Software	Specifications
CPU	Core 2 Duo 2.0 GHz or higher
RAM	2 GB or more
Display	Screen resolution: XGA (1024 x 768 pixels) or higher WXGA (1280 x 800 pixels) or higher recommended Screen colors: 24 bits or more
Mouse	Microsoft Mouse or compatible mouse
Interface	USB2.0, for communication with digital camera USB1.1, for communication with retinal camera: emulating RS-232C RS-232C (for magnetic card and barcode reader)
Operating system	Microsoft Windows XP Professional SP2/SP3* Microsoft Windows Vista Business SP1/**SP2*** * This software does not support x64 (64-bit versions).
Applications	Microsoft .NET Framework Version 3.5 SQL Server 2005 Express Edition **SP3** Canon Easy-PhotoPrint EX Version 2.0.0 or later, for printing images
Compatible EOS	EOS 50D

Descriptions of New Functions

Deleting Rows from Patient History List

You can delete unnecessary rows from the **Patient History** list.

Click the row you want to delete to select it, and press the **Delete** key.
The row is deleted but the study information is retained.

See also sections 4.2.2 “Manual input” and 4.2.3 “Magnetic card/barcode input” in the Operation Manual.

Displaying Required and Available Memory in Destination to Save Study Log Data

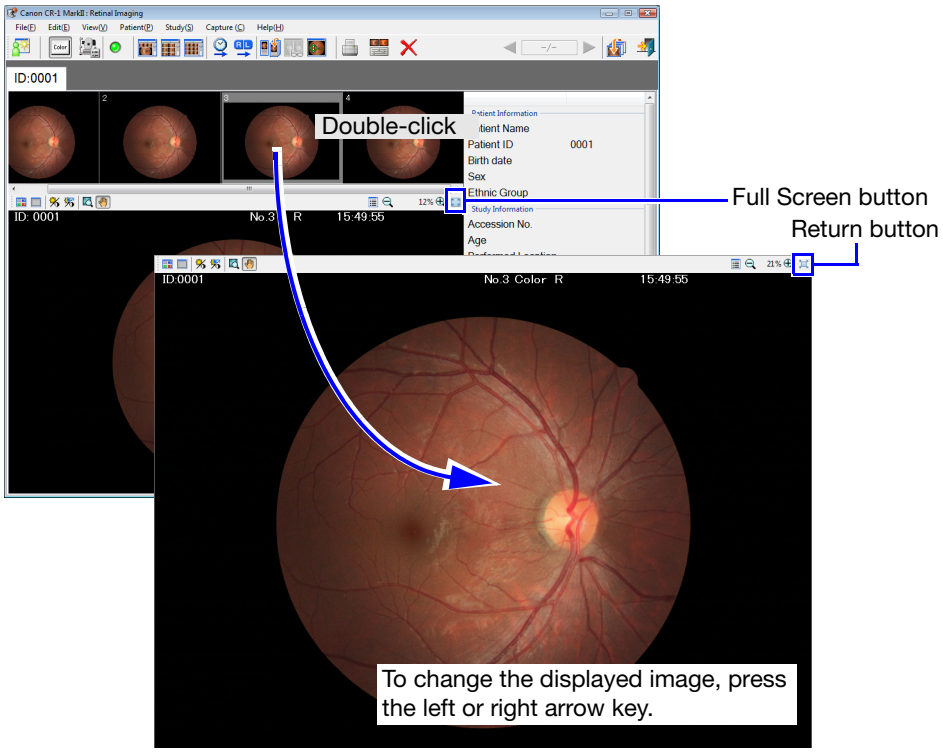
When saving temporarily saved study log data, the required and available memory are displayed on the **Save** screen.

Displaying Image in Full-screen

The Retinal imaging control software NM can display retinal images in full screen.

Click [**Full Screen**] or double-click the thumbnail that you want to display in full screen. To return to the previous screen, click [**Return**] or press the **ESC** key.

See also section 6.1 “Main screen” in the Operation Manual.

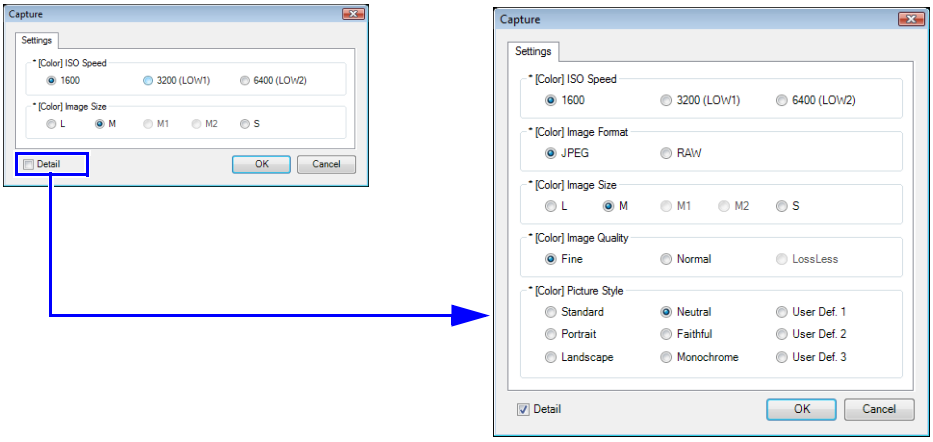


Changing Capture Settings During Examination

You can open the **Capture** screen with a click of a button when you are about to capture an image. On the **Capture** screen, you can change the capture settings, for example, the image format and size.

1 Click the [**Capture Settings**] button on the toolbar.

2 Change the settings.
You can display more settings, by selecting the **Detail** checkbox.



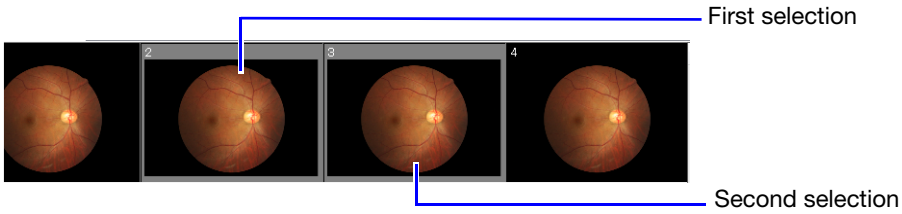
3 Click [**OK**] to close the **Capture** screen.

Manipulating Images in Stereo Display

You can record two captured images paired in a stereo image on the **Stereo Display** screen.

Pairing Images for Stereo Images

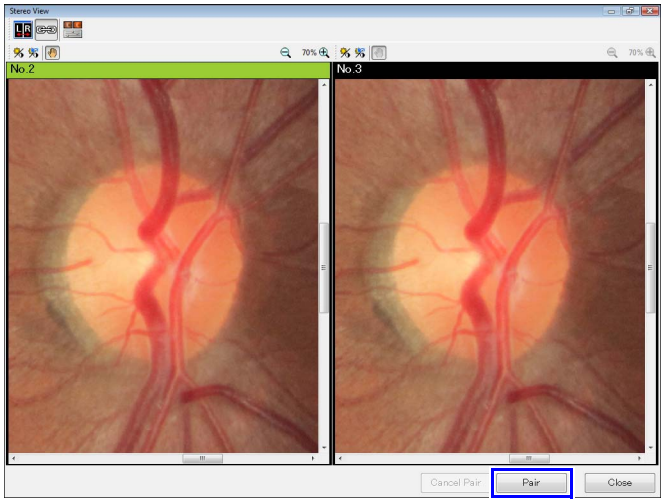
1 Click the thumbnail of the first image you want to pair as a stereo image.



2 Hold the **Ctrl** key and click the thumbnail of the second image.

3 Click [**Stereo View**]. The stereo image appears in the side-by-side alignment that the thumbnails are displayed.

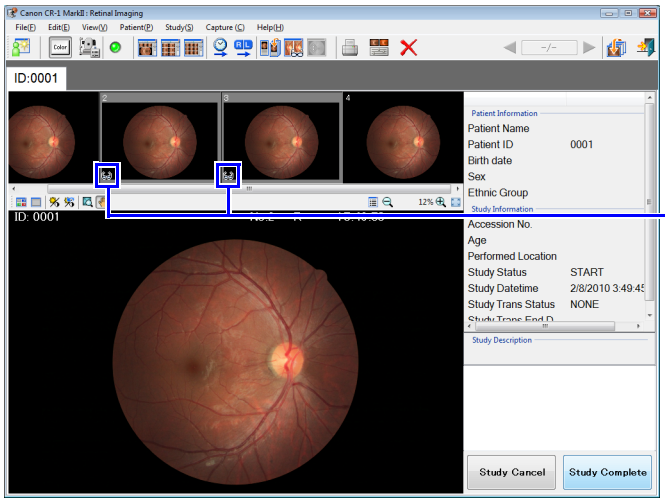
4 Click [**Pair**].
The images in the side-by-side alignment are recorded as a stereo image.



Adjust images
Apply the same effect to both images (zoom in, zoom out, or move)
Switch right and left images

Pair as stereo image. The stereo mark appears.
Unpair the images. The stereo mark disappears.

5 Click [**Close**]. The stereo mark is added to the thumbnails.



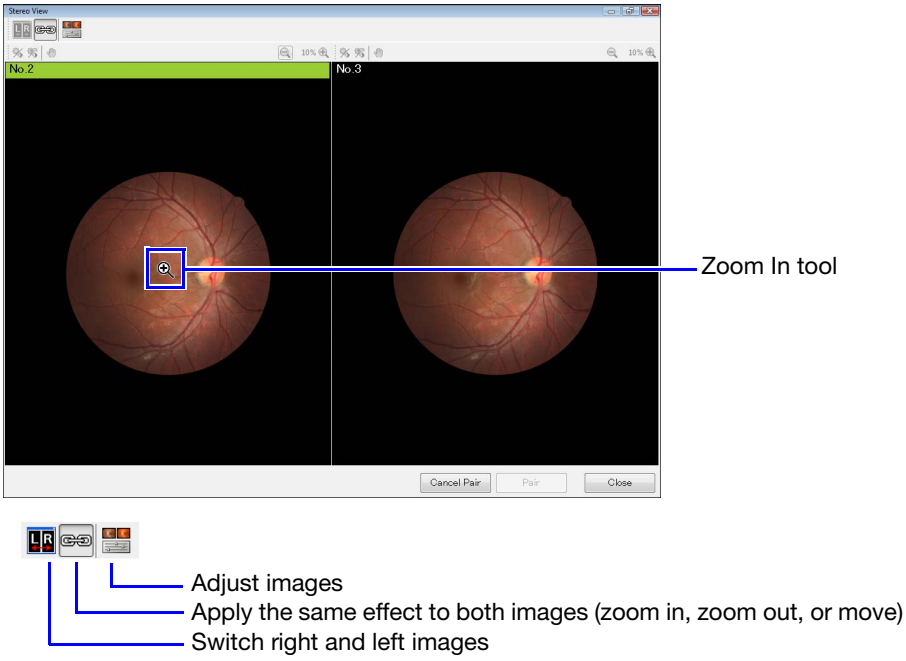
Stereo mark

Displaying Stereo Image

The stereo mark (glasses) appears on the thumbnails of images that are paired as stereo images.

1 Click a thumbnail that has the stereo mark.

2 Click [**Stereo View**].
The **Stereo View** screen appears.
Initially, the Zoom In tool is selected for the mouse. To zoom in, zoom out, or to adjust the image, click the image once.



3 Click [**Close**] to exit the **Stereo View** screen.

Saving Displayed Image in TIFF Format

You can save the image displayed on the main screen in TIFF format.

Select [**File**] > [**Save As...**] from the menu. Select **Tiff files - Lossless** or **Tiff files - LZW** from the **Save as type** list box.

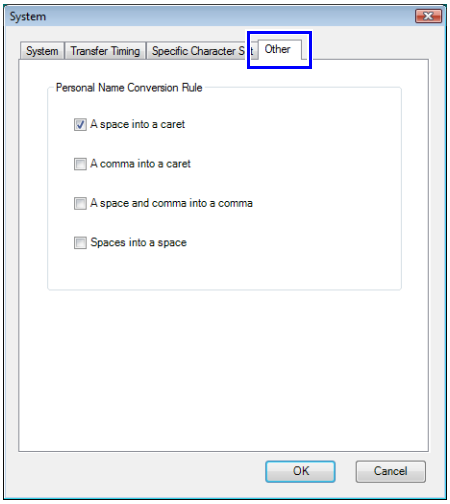
See also section 6.11 “Saving as JPEG Files” in the Operation Manual.

Setting Personal Name Separator Conversion Rule in DICOM

You can set the conversion rule for the separator between name elements in DICOM.

On the **Other** tab of the **System** screen, select a conversion rule option.
The setting is applied to screen displays and DICOM text string output.

See also section 7.2 “System” in the Operation Manual.

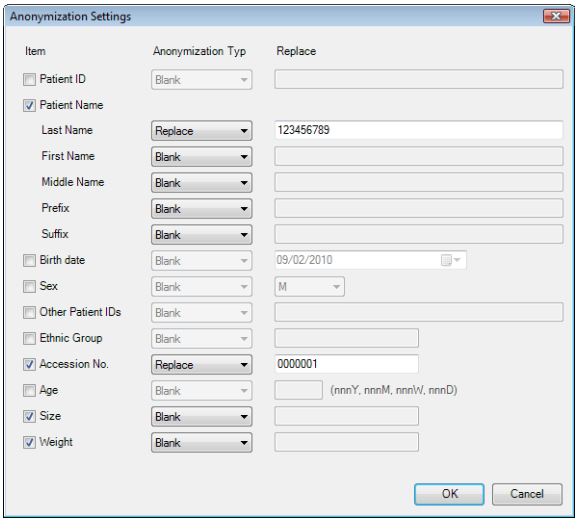


Anonymizing Patient Information

The Retinal imaging control software NM can anonymize pieces of patient information that are appended to transferred images.

See also section 7.6 “Storage” in the Operation Manual.

1. Open the **Create a New Storage** screen or **Change a Storage** screen.
2. Select the **Anonymize Patient Info.** checkbox.
3. Click the [**Anonymize Settings**] button. The **Anonymization Settings** screen appears.
4. Select the items that you want to anonymize.



5 Select the **Anonymization Type** from the list box (**Blank** or **Replace**).
When **Replace** is selected for **Anonymization Type**, input a text string that replaces the original value.

6 Click [**OK**]. The **Anonymization Settings** screen closes.

Setting Transfer Syntax for DICOM

You can specify a transfer syntax to export images in DICOM when the **No Compression** option is selected for the **Image Compression**. You can select one from Implicit VR Little Endian, Explicit VR Little Endian, and Explicit VR Big Endian.

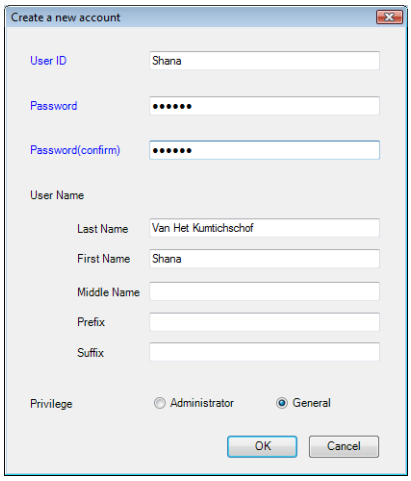
See also section 7.6.2 “Advanced export settings” in the Operation Manual.

Entering Login User Name in Five Name Elements

With this software, you can divide the user name for logging in into five elements.

Enter the user name in the **Create a new account** or **Change an account** screen for the user account. To display either of the screens, click [**Create**] or [**Change**] in the **User Accounts** screen.
The user name is saved as the DICOM tag of the operator’s name.

See also section 7.8.1 “Registering users” in the Operation Manual.



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